

## ABSTRACT OF THE DISCLOSURE

A test mode setup circuit for a microcontroller unit (MCU) operates a test mode for an internal circuit or the like using only a reset pin and a clock pin, which are required pins. Thus, the microcontroller uses the test mode setup circuit without providing a separate test pin. The test mode setup circuit is suitable for an MCU having a small number of pins. In addition, various test modes for the microcontroller can be achieved by decoding a test mode count value of a test mode counter in alternative ways.